

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: June 28, 2006

Inspector: Don Ukers

Location: Overhead Line (Composite 345kV and 115kV Gallows Hill to Archers Lane,
345kV H-Frame Hoyts Hill to Gallows Hill, and Norwalk Section)

Storm/

Rain Event: Between 1.17-2.20" of rain was recorded over 6/23-6/26 with another 0.45-1.76" on 6/28 as reported by NOAA and depending on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	- The Composite ROW work is mainly accessible from Gallows Hill Rd by an existing trail path with a swing gate, and an access road passing through the Archers Lane substation. 6/28/06. -Most steep slopes have erosion in the stone dust.	- If necessary, additional measures for stability should be considered for access needs. If any areas still have ruts at the end of the work, they will need to be regraded to return to original conditions. 12/8/05-6/28/06.	-N/A until evaluation at the end of work.
Composite	- Active clearing was not noted past Archers Lane. Wood chips have been blown off the cleared ROW in some areas. See the vegetative clearing section for more details. 3/2-6/28/06.	-See vegetative clearing section for details and recommendations. 6/28/06.	- Still needs attention
	- One spot along the access road past Archers Lane has stone dust from the road overtopping the silt fence adjacent to the wetland. A second spot is also piling up. 6/7-6/28/06.	- Repairs should be made either by transition station or overhead crews. Stone/sediment needs to be removed. 6/1-6/28/06.	-Needs attention- also see transition station report.
345kV H-Frame	- An additional haybale was installed but is not enough. 6/14/06 - Work areas are accessed from Hoyts Hill, Chestnut Ridge Rd,	- Continue to monitor the conditions of all access	- N/A at this time

Areas of Inspection	Observation	Recommended Action	Corrective Action
Norwalk Section	the Bethel Res. water plant road, Lime Kiln Rd, Whortleberry Rd, John Todd Way and Costa Lane. 3/29-6/28/06.	roads. If muddy conditions re-occur, place more wood chips or consider installing silt fence as needed. 6/28/06.	
	- Washouts were noted within the wood chips in the access road between poles #5-6. 6/7-6/28/06.	- Erosion remains contained to the road but repair if feasible. Maintain existing erosion controls as necessary. 6/28/06.	- Still needs attention when feasible.
	- A fairly large erosive washout was present in the road near structure #31. 6/28/06.	- Haybale check dams may help reduce run-off velocity and promote sheet flow. 6/28/06	- Needs attention when feasible
	- Additional washouts were noted near the controls at Bethel water building from flow off Webb Rd. Additional controls were added during the inspection. 6/28/06.	- Continue to monitor for stability. Flow from Webb Rd during rain events is not project related and will be difficult to control 6/28/06	- Additional controls were installed
	- Stone dust and/or gravel access roads are in place at Perry Ave and Broad St. 4/6-6/28/06.	- Controls are in place. 6/20/06.	- N/A at this time
	- Access is gained to new work areas off North Seir Hill Rd. and Kent Road. Dust access roads were also completed in both directions and up to the pond in the north. 5/25-6/28/06.	- See erosion control section for several recommendations. 6/7-6/28/06.	- N/A
	- Access for new ROW clearing is also gained from Wilton Terrace to continue moving south to the pond. 6/28/06	- A stone dust access road is in place. See erosion control section. 6/28/06	- N/A
	- Several wetlands are matted here. Several	- Repairs may be needed in a few spots in the silt	- Needs attention

Areas of Inspection	Observation	Recommended Action	Corrective Action
	spots need maintenance where stone and sediment overtopped the fence. 6/14-6/28/06.	fence in the section south of Kent Rd. 6/7-6/28/06.	
Line Construction Composite	- Crews continue to pull wire at the structures leading into Archers Lane. 5/25-6/28/06.	- None at this time. 5/25-6/28/06.	-N/A
345kV H-Frame	- Crews continue to pull wire at the structures off John Todd Way. 6/20-6/28/06.	- See erosion control section. Some additional controls are needed 6/28/06.	-N/A
Norwalk Section	- Old towers remain down in the area of Perry Ave, Kent Rd, North Seir and the Rt.7 extension. They will be removed eventually. 6/28/06.	- None at this time 6/28/06	- N/A
	- All foundations that could be accessed by North Seir Hill Rd have been poured. Some of the structures have been installed. 6/7-6/28/06.	-None at this time. 6/28/06.	-N/A
	- Drilling for structure #62 near Rt 7 ext was noted. 6/28/06	-None at this time. 6/28/06	- N/A
	- Foundation drilling continues to the north of Kent Rd. The excavation at the pond was complete. 6/28/06.	- See erosion controls section for recommendations. 6/28/06.	- N/A
	- Clearing and access road construction was ongoing across the RR tracks from Arrowhead Rd. 6/28/06	- See erosion controls section for recommendations. 6/28/06.	- N/A
Erosion and Sediment Controls	- Water levels appear to remain below problem levels at the 2 nd wetland crossing along the Archers Lane access road. 2/16-6/28/06.	- None at this time. 6/28/06.	-N/A

Areas of Inspection	Observation	Recommended Action	Corrective Action
<p>Composite</p> <p>Erosion controls continued</p> <p>345kV H-Frame</p> <p>Chestnut Ridge Section</p> <p>Bethel Reservoir Section to Chestnut Ridge Rd.</p>	<p>- Silt fence is being overtopped by sediment piling up from run-off on the access road past Archers Lane. 6/1-6/28/06</p> <p>- Wood chips had been blown into the uplands and wetland area at the third structure in from Gallows Hill Road. 2/22-6/28/06. Another area with deep wood chips off the cleared ROW remains past Archers Lane. 3/15-6/28/06.</p> <p>-Turbid run-off was noted in the 3rd wetland past Archers Lane. 6/28/06</p> <p>- An old stockpile was noted at a structure before Rt 53 off Gallows Hill. 5/17-6/28/06</p> <p>- Disturbed soil remains adjacent to structure #34 off Gallows Hill. Controls had been straightened up but sediment was still encroaching. 6/28/06</p> <p>-The majority of the pile at structure#6 has been removed but soil remains encroaching on wetlands 4/12-6/28/06.</p> <p>- Haybales were placed in the low spot at the access road near structure #6 on 6/14/06</p>	<p>-The overtopping areas should be repaired and stone pulled back and removed from the wetland. 6/1-6/28/06</p> <p>-Make sure chips stay on the ROW. Contractors should remove the off ROW chips since this is not allowed in the D&M plan. 2/22-6/28/06.</p> <p>- Wood chips on the ROW can remain at a depth of 3". Deeper piles should be spread out. 4/6-6/28/06.</p> <p>- Maintain controls here. Determine where the run-off is entering and repair it. 6/28/06</p> <p>-Make sure that restoration occurs in previously disturbed areas and that materials are removed and not forgotten in place. 5/17-6/28/06</p> <p>- The soil should be pulled back and the area vegetated- even if it is temporarily. 6/14-6/28/06</p> <p>- Remove the soil here as soon as conditions can support this without further impact. 2/22-6/28/06.</p> <p>- Continue to monitor and reinforce if necessary. 6/28/06</p>	<p>- Needs attention from either transition station or overhead crews</p> <p>-Still needs attention (CL&P is looking into a solution here)</p> <p>- Needs attention</p> <p>- Needs attention when feasible</p> <p>- Haybales were straightened up but still needs attention when feasible.</p> <p>- Needs attention when feasible</p> <p>-N/A</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
Costa Lane, Whortleberry, Lime Kiln and John Todd Way	<p>- Non project related vehicles had not returned to the stream & wetland between poles #10-11. But ruts and disturbance remain. 6/28/06.</p> <p>- Silt fence at pole #24 was overtopped by run-off again. Some additional clearing also occurred here for pulling wire leading to some run-off to the wetland 6/28/06.</p> <p>- The driveway contractor (unrelated to the project) remains in this area. Silt fence has been installed near the work but turbid water was still noted in the wetland. 6/28/06.</p> <p>-The area of silt fence near pole #11078 looks good. 6/28/06.</p> <p>- The foundation near the Norwalk substation has good silt fence coverage. 5/17-6/28/06. However, bare, exposed soil remains adjacent to the foundation. 6/7-6/28/06</p> <p>-A structure location off Wilton Terrace will be at the edge of a wetland area and temporary access impacts will be necessary. 6/28/06</p> <p>-Although water in the stream was not turbid,</p>	<p>- The ruts in the stream or wetland should be smoothed out and silt fence should be placed across the ROW to prevent sedimentation and help discourage access. 5/17-6/28/06</p> <p>-Repair silt fence and install haybales for additional control.</p> <p>Also, install new controls in this newly cleared area 6/28/06.</p> <p>- This is not project related but should be noted for the record in case there are issues here later. 6/7-6/28/06.</p> <p>-Continue to monitor and maintain 6/28/06</p> <p>-Continue to monitor due to proximity of the river. Restore the adjacent area with vegetation to reduce potential run-off, even if it is temporarily. 6/7-6/28/06</p> <p>- Timber mats will be installed for access and erosion controls will be placed at the work limits. Haybales are appropriate if the workspace is tight. 6/28/06</p> <p>-Extend the silt fence along both banks of the stream to prevent run-off</p>	<p>- Needs attention (even though the majority of the damage is not project related.)</p> <p>- Needs attention</p> <p>-Needs attention</p> <p>- Not project jurisdictional</p> <p>-Silt fence is in good shape</p> <p>- Needs attention if feasible</p> <p>-N/A at this time</p> <p>- Needs attention</p>
Norwalk Section			
Kent Rd. (North – new ROW section)			

Areas of Inspection	Observation	Recommended Action	Corrective Action
Kent Rd. (South)	<p>portions of the banks need silt fence extended due to lack of vegetation 6/7-6/28/06.</p> <p>- The foundation near the pond had been drilled without erosion controls in place. 6/28/06</p> <p>-The one section of silt fence remains along the pond. The pond was not receiving any turbid run-off. 6/7-6/28/06</p> <p>- Mats were in place at the pooled wetland crossing as well. Water here remains clear without obvious turbidity. 6/7-6/28/06</p> <p>- Mats are installed along much of the ROW south of Kent Rd. During the heavy rains, sediment and stone overtopped the silt fence again 6/28/06.</p>	<p>from the recently cleared areas. 6/7-6/20/06</p> <p>-Install controls along this work without encroaching on the existing vegetation. Haybales or silt socks would be appropriate. 6/28/06</p> <p>- Continue to monitor. Watch silt fence for any areas that need to be toed back in. 6/7-6/28/06</p> <p>- Erosion controls were well installed and should be maintained. 6/7-6/28/06</p> <p>- Pull silt fence up and repair. These areas will be difficult to control during heavy rain due. Pull stone/sediment back from wetland where necessary. 6/7-6/28/06.</p>	<p>- Needs attention.</p> <p>-N/A</p> <p>-N/A</p> <p>- Needs attention</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p> <p>Composite</p> <p>345kV H-Frame</p>	<p>-The D&M plan approved stone on geotextile fabric at the wetland crossings have worked well. 4/6-6/28/06.</p> <p>- Turbidity was noted in the wetland at the 3rd crossing from access road run-off. 6/28/06.</p> <p>- At structure #6, most of the mud was removed from the wetland and they will continue to do</p>	<p>- As the access is considered temporary, the stone will be removed when final work ends so the wetlands can be restored. 1/26-6/28/06.</p> <p>- Maintain controls and identify where the run-off was entering 6/20/06.</p> <p>- Continue to remove entire pile. 2/16-6/28/06.</p>	<p>-N/A until evaluated at the end of work.</p> <p>-Needs attention</p> <p>-Needs attention when feasible.</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
Norwalk Section	so. 4/6-6/28/06.		
	- Non project related vehicles had not returned to the wetland between #10-11 but damage remains 6/28/06	- Ruts should be smoothed out and silt fence added in an attempt to discourage access. 5/25-6/28/06	-Needs attention (the majority of disturbance is from non project related vehicles)
	-Off Kent Rd north, silt fence should be extended at the stream. It should also be extended at the pond to encompass the recent foundation drilling 6/28/06.	-Carefully remove some of the branches and debris noted in the stream and extend silt fence where recommended. 6/7-6/28/06.	-Needs attention see erosion control section
	- Some access impact will occur at the edge of a wetland near the pond in order to access a foundation location. 6/28/06	- Mats and controls will be utilized in this area. 6/28/06	-N/A at this time
	- Use caution in clearing trees from wetland areas. Avoid creating ruts when skidding them out. 3/29-6/28/06.	- Retain shrubs and low growth as much as possible, especially at stream buffers. 3/2-6/28/06.	- N/A
All Sections	-If a wetland is being used as amphibian breeding habitat, retaining some wood debris at its boundaries may be beneficial. 3/2-6/28/06.	-Carefully remove brush piles and trees from near wetland areas. 3/2-6/28/06. - Watch this near the pooled area on the new ROW section	-N/A
State species of concern, threatened and endangered species	- The composite portion of overhead work includes state-listed turtle habitat area. 9/15-6/28/06.	- Now that weather is warmer, daily walkthroughs should be occurring prior to any work in the area. 4/6-6/28/06.	-N/A at this time
	-An Eastern box turtle was noted crossing the access road near structure #7 in the Chestnut Ridge Rd section on 6/14/06.	- Perform walkthroughs in this new section as well. 6/14-6/28/06.	-N/A

Areas of Inspection	Observation	Recommended Action	Corrective Action
Vegetative clearing limits (including trees to save or danger trees noted)	- Adjacent homeowners near Gallows Hill mentioned damage to mountain laurel and other shrubs. 3/2-6/28/06.	-In general, take care in retaining shrubs and use mats to access or skid out trees from wetlands. 2/22-6/28/06. -Replace shrubs where necessary. 6/28/06.	-Needs attention when feasible
Composite	- A significant amount of chips were blown off the ROW into the upland and also along the wetland edge at the 3 rd structure off Gallows Hill. These areas are off property. 2/22-6/28/06. -This was also noted several structures past Archers Lane. 3/15-6/28/06.	- Chips currently off ROW boundaries should be removed carefully to comply with the D&M plan. 2/22-6/28/06. Chips on ROW should be spread to a depth of 3". 4/6-6/28/06.	- Still needs attention CL&P is looking into this.
345kV H-Frame	-Clearing was not actively occurring along the ROW past Archers Lane. 6/28/06.	- To avoid wetland damage, trees here will be sheared from the access road and felled out of the water. 3/15-6/28/06	- CL&P proposed the work under these specs.
	- Some additional clearing was needed for wire pulling near structure #24. Turbid run-off was noted. 6/28/06	-Provide additional erosion controls here. 6/28/06	-Needs attention -N/A
Norwalk Section	- Clearing of new ROW continues north of Kent Rd., coming in from the other end of the pond. 6/28/06.	- Be extremely careful to retain shrubs and vegetation where feasible. 5/25-6/20/06.	- Several areas near wetlands did have vines and shrubs in place.
	- Efforts were made to retain stumps and shrubs along the bank of the pond, stream and pooled area. 6/7-6/28/06.	- Some downed branches were noted in the stream that could be carefully removed. 6/7-6/28/06	
Dewatering	- No obvious dewatering efforts were noted at the time of inspection. 6/28/06.	- Release water to the ground only in well vegetated areas if it will not reach any resource areas. (Make sure to	-N/A at this time

Areas of Inspection	Observation	Recommended Action	Corrective Action
		check downgradient for these areas) Otherwise use a filter bag or adequate containment. 3/9-6/28/06.	
Blasting	-No blasting has been necessary at this time on the ROW. 6/28/06.	-None at this time. 6/28/06.	-N/A
Spills and Material Storage	-None of the parked or active equipment was leaking at the time of inspection. 3/15-6/28/06. - However, machinery was noted parked fairly close to the Kent Rd pond. Equipment should be parked over 100 ft from resource areas or as far as feasible. 6/28/06	- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site - Keep adequately size fuel kits for worst-case scenarios. - Report spills immediately, even if they are being controlled. - Avoid refueling in the areas near the wetlands. Use proper storage for all materials.	-N/A - Needs attention
Additional Observations	- The bike path was constructed within the ROW moving north from the substation. 6/28/06	- It is unclear which contractor is working on this but restore adjacent areas as soon as feasible.	

Next likely scheduled inspection:

Wednesday July 5, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature: Diana Walden for Don Ukers



(Composite Section): Photo on the left shows where the 3rd wetland crossing past Archers Lane contained turbid water, likely run-off from the access road. Photo on the right shows the spot along the Archers Lane ROW where the access road stone was close to overtopping the fence near the 2nd wetland. It should be pulled back. 6/28/06



Photo on the left shows where controls were straightened up near structure #34 off Gallows Hill. Sediment is still encroaching on the area. (345kV H-Frame): Photo on the right shows water flowing down Webb Rd from Nashville Rd Ext. during the rain event. 6/28/06.



Photo on the left shows the entrance into the ROW. Water from Webb Rd had washed out some controls but more were being added at the time. Photo on the right shows washouts in the access road. This remains contained to the road but will be repaired when feasible. 6/28/06.



Photo on the left shows erosion in the access road stone near structure #31. Haybale check dams may reduce run-off velocity or promote sheet flow. Photo on the right shows where the residential driveway contractor near John Todd Way had eventually placed silt fence. Wetlands already contained turbid standing water. 6/28/06.



Photo on the left shows the machinery in this same area pulling wire near structure #24. This work also required some additional clearing, resulting in turbid run-off to the wetland. Additional erosion controls are needed here. Photo on the right shows where silt fence repair is needed near this same structure. 6/28/06.



(Norwalk Section): Photo on the left shows a view of the newly cleared ROW off Wilton Terrace. Photo on the right shows a view of a structure location immediately adjacent to a wetland area. Mats and erosion controls will have to be installed here during drilling. 6/28/06



(Kent Rd north): Photo on the left shows a foundation hole drilled in the ROW section near the pond. Erosion controls were not placed between the work and the pond and should be installed. Photo on the right (background) shows some machinery parked fairly close to the pond. Vehicles should be parked away from resource areas whenever possible. 6/28/06



Photo on the left shows where run-off and stone were overtopping the silt fence along the access road south of Kent Rd. This should be pulled back and repaired. Photo on the right shows more towers down and waiting for removal. 6/28/06